TEJUS

No. EE/project/YnkZone/WO/155 / 17 – 18 Date: 6/8/2018

To
The Executive Engineer (Project Division)
Yelahanka Zone,
Bruhat Bangalore Mahanagara Palike,
Bangalore.

Dear Sir

Sub: **First RA bill for the work of Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli.**

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the **First RA bill** submitted by M/s. KRIDL, Bangalore, towards the above said work and arrived at an amount of **Rs. 1,49,03,497.82 /- (Rupees One Crore Forty Nine Lakh Three Thousand Four Hundred Ninety Seven and Paise Eighty Two Only)**. The work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants
(Nischal M)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Consultants	TEJUS CONSULTANTS
Contractor	M/S KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand)		Proposed Use	coping concrete/PCC	
Sample Location	At Plant/ At site		Date of Sampling	07.03.18	
			Date of Testing	07.03.18	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	185	185	6.17	93.83	90 - 100
2.36 mm	432	617	20.57	79.43	75 - 100
1.18 mm	622	1239	41.30	58.70	55 - 90
0.600 mm	449	1688	56.27	43.73	35 -59
0.300 mm	622	2310	77.00	23.00	8-30
0.150 mm	440	2750	91.67	8.33	0 - 10
Pan	250	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Consultant's Representative

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Contractor	M/S KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	07.03.18
Period of Soaking	24 hours	Date of Testing	07.03.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	630	650	660	
B	Weight of oven - dry sample gm.	622	642	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1672	1683	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.670	2.653	2.661	2.661
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.286	1.246	1.227	1.253

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Consultants	TEJUS CONSULTANTS	
Contractor	M/S KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Drain
Sample Location	Plant	Date of Sampling	07/03/18
		Date of Testing	07/03/18

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	551	551	5.51	94.49	90-100
10.0	3315	3866	38.66	61.34	40-85
4.75	5561	9427	94.27	5.73	0-10
Pan	573	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Consultants	TEJUS CONSULTANTS	
Contractor	M/S KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Drain
Sample Location	Plant	Date of Sampling	07/03/18
		Date of Testing	07/03/18

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	562	562	5.62	94.38	90-100
10.0	3284	3846	38.46	61.54	40-85
4.75	5622	9468	94.68	5.32	0-10
Pan	532	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Consultants	TEJUS CONSULTANTS	
Contractor	M/S KRIDL	
Total Weight	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Drain	
Sample Location	At Plant		Date of Sampling	07.03.18	
			Date of Testing	07.03.18	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	292	292	2.92	97.08	95 - 100
10.00 mm	4682	4974	49.74	50.26	25 - 55
4.75 mm	4320	9294	92.94	7.06	0 - 10
Pan	706	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Contractor	M/S KRIDL		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Side Concrete	
Sample Location	At Plant	Date of Sampling	07.03.18	
		Date of Testing	07.03.18	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	264	264	2.64	97.36	95 - 100
10.00 mm	4658	4922	49.22	50.78	25 - 55
4.75 mm	4452	9374	93.74	6.26	0 - 10
Pan	626	10000			

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Sample ID	Cement
Date of Sample Tested	07/03/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	332 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Sample ID	Cement
Date of Sample Tested	07/03/18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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Test report on Compressive strength of concrete cubes

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.03.18	02.04.18	7 days	8.108	22500	220	9.78	9.82
2	26.03.18	02.04.18	7 days	8.106	22500	221	9.82	
3	26.03.18	02.04.18	7 days	8.114	22500	222	9.87	

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